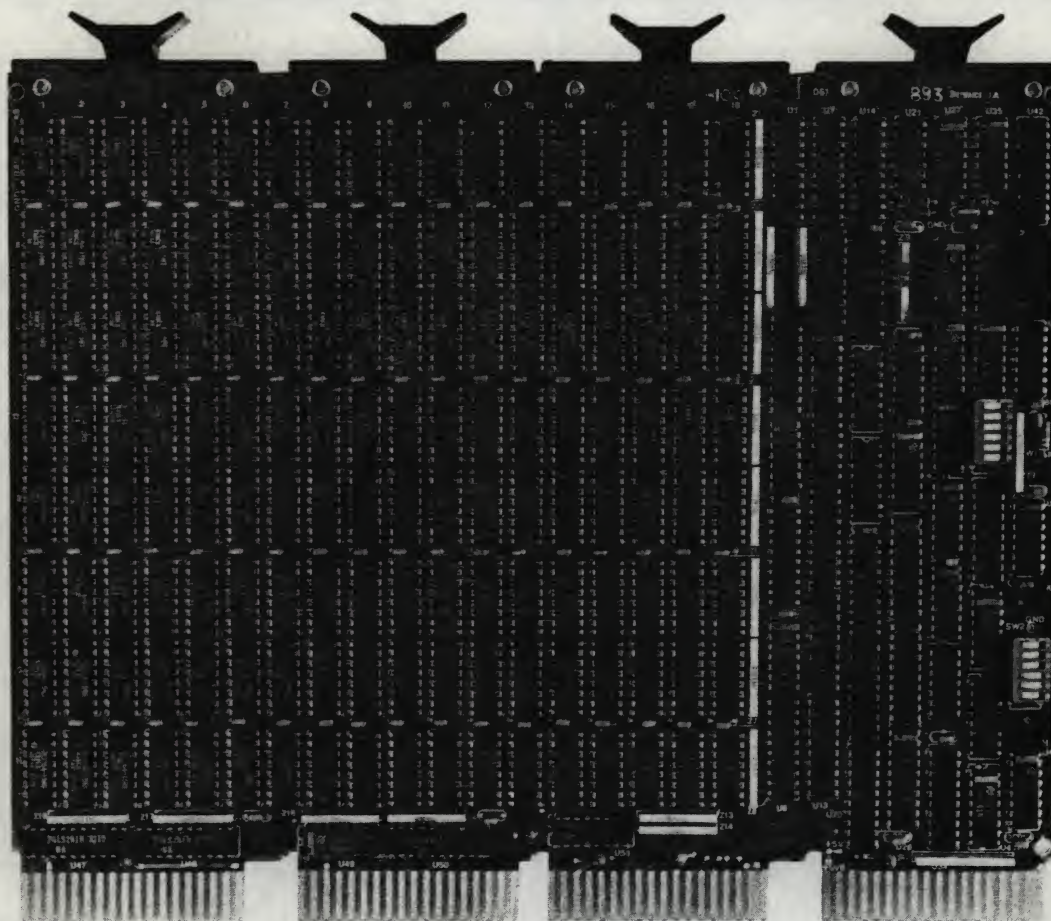


1 MEGABYTE CSR MOS MEMORY

FOR ★ DEC LSI-11/23, PDP-11/23, PDP-11/23 PLUS & MICRO-11



MODEL CMV-1000

Features:

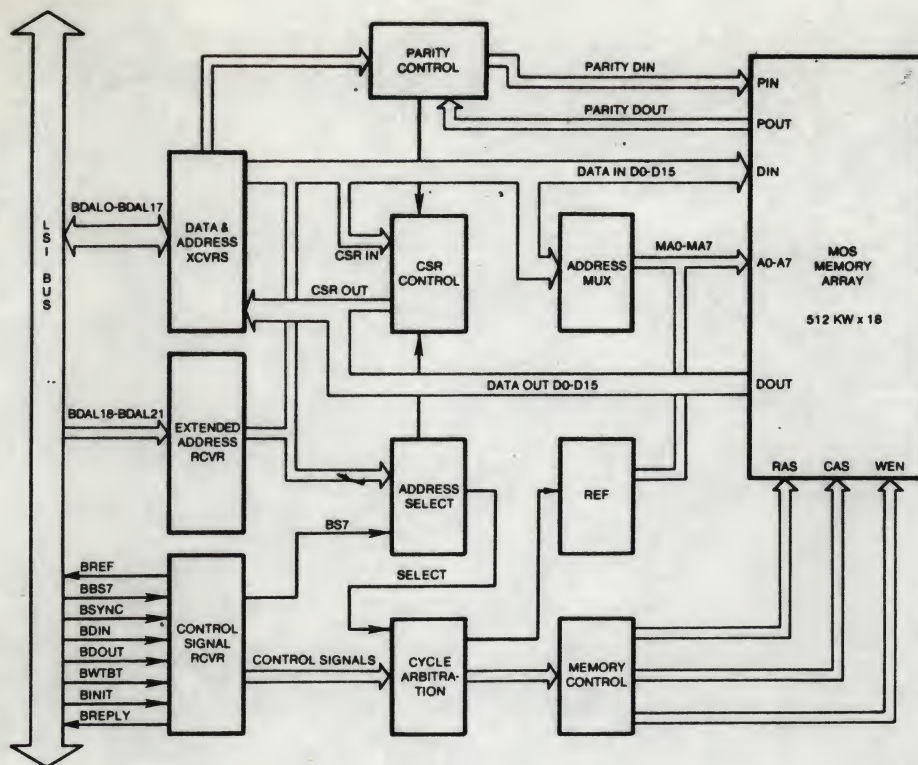
- ☐ Up to 1 megabyte of MOS memory on a single quad module.
- ☐ 22-bit addressing standard.
- ☐ Parity is generated and checked for each byte for data integrity.
- ☐ Self-contained Control and Status Register (CSR) for full parity implementation.
- ☐ Full parity control enables the CPU to trap on a parity error with LED display for parity status.
- ☐ Completely LSI hardware and software compatible.
- ☐ Switch selectable starting address in 128K byte increments between 0 and 4 megabytes.
- ☐ 16 jumper selectable CSR addresses (172100 thru 172136)
- ☐ Single +5V power with battery backup capability (jumper).
- ☐ Depopulated version of 512K byte available.
- ☐ Supports Block-Mode for efficient multiple DMA transfer.



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MEMORY BLOCK DIAGRAM

Description:

The CMV-1000 is a quad wide dynamic RAM memory module for DEC LSI-11/23, PDP-11/23, PDP-11/23 plus and Micro - 11 systems. It provides up to 1 megabyte of memory on a single Q-bus Unit Load.

Extended addressing capability to 4 megabytes is provided with standard 22-bit addressing. The memory is addressable as a contiguous block in 128K byte increments between 0 and 4 megabytes.

A full parity implementation is achieved via the Control and Status Register (CSR) that allows up to 4 megabytes of CSR

memory. The CSR stores the error flag and bad block address. In the event of a parity error which will allow the operating system to avoid use of the bad block.

The CMV-1000 also provides on board memory refresh and performs DATI, DATO, DATOB, and DATIOB as LSI-11 bus protocol. Power requirements are +5V only. User provision of battery backup power is available via jumpers on the module.

The CMV-1000 is also available in non-parity and 512K byte versions.

Block-Mode DMA is supported by the CMV-1000 for increased throughput.

Specifications:

Physical:	Standard quad
Bus Load:	1 Unit Q-bus Load
Power:	+5VDC: 3.5 Amp (typ) +5V Battery: 2.1 Amp (typ)
Access Time:	200 ns
Cycle Time:	500 ns



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